**Kyungrin Noh**

*Data Scientist, GBS, IBM Korea*

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| **Contact**    +82-10-4106-8829  [nohfly@gmail.com](mailto:nohfly@gmail.com)  [https://nohfly.github.io](https://nohfly.github.io/)    #105-103, 50, Seongbukro 8gil, Seongbukgu, Seoul, South Korea (02834)    **Skills**  *Development skills*   * Machine Learning * Optimization * Text Analysis * Server Setup/Mgmt.   *Development tools*   * Python * Java * SQL * Django * Linux   *Project skills*   * Scheduling * Management * Presentation     **Languages**   * Korean * English | Graduated from Bio-Information System Laboratory, KAIST with master’s degree in Bioinformatics, researching on drug candidates from natural products and their effects in human metabolic pathways. Currently working as data scientist/consultant in GBS, IBM Korea for 4+ years. Main work includes, but is not limited to, machine learning/optimization model development in python, analytics server development in AWS, data analysis in various industries, and project management.  **Education**   |  |  | | --- | --- | | *2015 - 2017* | **Bio-Information System Laboratory, KAIST**  *Master of Science (Graduation date: Feb. 2017)*   * **Major:** Bio and Brain Engineering (**GPA:** 3.77/4.30) * Researched on drug discovery from natural products based on their similarity to human metabolites. Main activities include implementation of machine learning models for drug discovery, network analysis on metabolic pathways, and similarity calculation of molecular structures and amino acid sequences. | | *2009 - 2015* | **Korea Advanced Institute of Science and Technology (KAIST)**  *Bachelor of Science (Graduation date: Feb. 2015)*   * **Major:** Biological Sciences (**GPA:** 3.40/4.30) * With the curriculum mainly focused on Genetics, Biochemistry, and Molecular Biology, conducted individual research on targeted anti-tumor drug delivery.   [[Graduation thesis]](https://nohfly.github.io/resume/BachelorThesis_KyungrinNoh.pdf) | | *2007 - 2009* | **Yongin Foreign Language High School, Korea** | | *2006 - 2007* | **Calera High School, Alabama, USA** |   **Publications**   * K Noh & S Yoo, D Lee. 2018. **A systematic approach to identify therapeutic effects of natural products based on human metabolite information.** *BMC Bioinformatics. 19.* <https://doi.org/10.1186/s12859-018-2196-0>. * S Yoo, K Noh, M Shin, J Park, KH Lee, H Nam, D Lee. 2018. **In silico profiling of systemic effects of drugs to predict unexpected interactions.** *Scientific Reports. 8.* <https://doi.org/10.1038/s41598-018-19614-5>.   **Work Experience**   |  |  | | --- | --- | | *2017 - Now* | **Global Business Services, IBM Korea**  *Data Scientist / Senior Consultant*   * **V-service. Cognitive Workforce Management**   *Project Leader*   * Developed a python model to measure employee’s fitness to open positions in business sites. * Developed Django application server and Oracle DB instance in AWS for REST API service of the fitness measure model. * Implemented word embedding machine learning module, *fastText*, to compare required skills with employee’s career. * **A-hospital. Automated Nurse Scheduling**   *Project Leader*   * Developed a python model to generate monthly nurse schedule, implementing the *Genetic Algorithm*. * To enable tight scheduling with minimum rule violations, rule-based fitness function and sequential optimization steps were introduced. * **A-hospital. Automated Bed Allocation**   *Project Leader*   * Developed a python model to automatically allocate beds to inpatients based on their admission apply date and conditions. * Implemented the *Genetic Algorithm* to follow necessary allocation standards and produce the most optimized solution.   [Press release *(*[*English*](https://www.ibm.com/case-studies/asan-medical-center-automation) */* [*Korean*](http://www.amc.seoul.kr/asan/information/journal/journalDetail.do?journalId=12445)*)*]   * **S-financial group. AI Market Forecasting**   *NLP Developer*   * In charge of the IBM Watson solution implementation. * Performed *Named-Entity Recognition* from 20+ years of news/ blog/report data, to utilize unstructured text data in market forecasting.   [Press release *(*[*English*](https://www.businesskorea.co.kr/news/articleView.html?idxno=35662) */* [*Korean*](http://www.shinhangroup.com/kr/pr_center/pr_center_content.jsp?seq=7484)*)*]   * **H-insurance. AI Claim Processing**   *Data Consultant*   * Supported development of the automated insurance claim processing model, using the machine learning module of the IBM Watson solution. * **L-chemical. Digital Sales Platform**   *Data Consultant*   * Developed a mobile platform for sales teams to use on-site. * Analyzed product quality data and related systems to integrate relevant data into one sales service. | | *2017* | **Bio-Synergy Research Center, KAIST**  *Research Associate*   * Researched on *in silico* drug discovery from natural products. * Supported cluster server setup and server management. |   **Achievements**   |  |  | | --- | --- | | *Oct. 2020* | **Lecturing at Chonnam National Univ.**   * Lectured on analytics project management in business fields. | | *Jul. 2020* | **Lecturing at IBM P-TECH School**   * Lectured on career path of data analyst/scientist. | | *2009 - 2011* | **Interpreter at ROK-US Combined Forces Command**   * Received Army Commendation Medal from US division chief. | |